

WHAT IS CLAIMED IS:

1. A bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast, comprising:

a main server for providing commercial information, detailed commercial information in case a certain user selects the commercial information, a service page for receiving a user's request for the commercial information, and offering diagnosis result data in response to a medical diagnosis request which is received;

a data communication network for allowing many and unspecified persons to access the main server in an on-line manner; and

a monitoring device for receiving the commercial information from the main server to display them on a main screen after getting an on-line access to the main server via the data communication network, creating a subsidiary window on upper portion of one side of the main screen to output another commercial information or display medical diagnosis request data input according to the user's handling and then transmit them to the main server, and outputting a page for outputting diagnosis result data corresponding to the medical diagnosis request data.

2. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 1, wherein

the bidirectional monitoring system further comprises a medical institution server, and

the monitoring device includes a connection terminal which can be connected to a health check device, whereby the monitoring device determines if the health check data are input from the health check device when the health check device is connected to the connection terminal, transmits the health check data to the medical institution server in case the health check data are

input, compares the health check data with health reference data registered previously so as to output user's health result data recognizable from the health check data on the main screen or the subsidiary window in a graphical illustration, compares the health check data with transmission limitation data registered previously so as to transmit the health check data to the main server or the medical institution server in case the health check data excess the transmission limitation data.

3. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 2, wherein the health check device includes a blood glucose tester, a blood pressure tester, or a clinical thermometer.

4. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 2, wherein, in the main server, the commercial information contains link information which enables an on-line connection to a corresponding sponsor's terminal so that an ordering data corresponding to the commercial information can be input by way of an output screen of the commercial information and transmitted.

5. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 1, wherein

the bidirectional monitoring system further comprises a bidet including a pressure sensor,

the bidet is connected to the monitoring system having functions of a medical diagnosis and a communication, and

the monitoring device is turned on by the pressure sensor in the bidet in case a user sits down on the bidet to accomplish the functions of a medical diagnosis and a communication.

6. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 1, wherein

the bidirectional monitoring system further comprises an analysis means for collecting user's urine and analyzing the user's urinary composition, and

the monitoring device analyzes the user's health conditions by using the user's urinary composition input from the analysis means, outputs analysis results in a graphical illustration, compares the analysis results with transmission limitation data registered previously, and transmit the analysis results by using data of the user's terminal registered previously in case the analysis results excess the transmission limitation data.

7. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 6, wherein the monitoring device comprises:

a storage unit for storing user's personal data, mobile terminal numbers corresponding to the user's personal data, and at least one of transmission limitation data and reference data for the urinary composition;

a control unit for outputting the urinary composition data input from the analysis means in a graphical illustration to compare them with the reference data, simultaneously outputting analysis results recognizable from the graphical illustration, and transmitting analysis result data to a corresponding mobile phone to notify it of a recipient in case the analysis result data excess the transmission limitation data;

a display unit for displaying an analysis graph and the analysis results on a screen to show them to the user in response to controlling of the control unit; and

a transmit unit for transmitting the analysis result data to a corresponding mobile phone in response to controlling of the control unit.

8. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 7, wherein

the monitoring device further comprises a tuner capable of receiving terrestrial broadcast signals, and

the control unit controls the tuner according to predetermined conditions so that broadcast signals of a predetermined channel can be received and displayed on the display unit.

9. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 7, wherein

the monitoring device further comprises a receive device capable of receiving cable broadcast signals, and

the control unit controls the receive device according to predetermined conditions so that broadcast signals of a predetermined channel can be received and displayed on the display unit.

10. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 8, wherein

the monitoring device further comprises a channel selection button to allow the user to select a certain channel, and

the control unit controls the tuner or the receive device in response to the channel selection signals selected by the channel selection button.

11. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 7, wherein the control unit performs controlling in such a way that the screen on the display unit can be split into a plurality of windows and different image signals are output to the split windows.

12. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 11, wherein broadcast signals output to the split window correspond to commercial broadcast signals.

13. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 7, wherein the monitoring device further comprises a protective plate for protecting the display unit.

14. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 7, wherein
the monitoring device further comprises an attack detect sensor, and
the control unit performs controlling in such a way that the an alarm sound can be output to a speaker in response to an attack detect signal from the attack detect sensor.

15. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 6, wherein the monitoring device accumulates/stores the analysis results input from the analysis means according to respective users and then transmits them on a regular or irregular basis by using data of user's terminals registered according to users.

16. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 6, wherein the data of user's terminals registered previously in the monitoring device are stored in relation with respective user's personal data and correspond to terminal numbers for a connection to the doctor in charge.

17. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 7, wherein the transmit unit transmits the analysis results in a manner that a recipient receives them by means of a literal message.

18. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 7, wherein the monitoring device further comprises a personal identification data input unit through which a certain user can input personal data.

19. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 18, wherein the personal identification data input unit includes at least one of a key panel, a card reader, and a fingerprint detector.

20. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 6, wherein the analysis means comprises:

a urine detect sensor for sampling a small amount of user's urine to detect it;

an analyzer for absorbing a small amount of the urine from the urine detect sensor and analyzing its urinary composition; and

a communication interface unit for converting the urinary composition analyzed by the analyzer into urinary composition data and transmitting them to a liquid crystal display means.

21. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 20, wherein the analysis means further comprises a urine test paper or a urine detect sensor in lower end of the analyzer in order to absorb a small amount of the user's urine.

22. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 20, wherein the urine test paper can be replaced with new one once it is used, and the urine detect sensor can be replaced with new one after a predetermined period of usage.

23. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 6, wherein the analysis means comprises:

a sense unit for sensing when a user urinates and outputting a urination sense signal;

a control unit for controlling the whole system in such a way that the user's urine can be

analyzed in response to the urination sense signal;

a reservoir open/close valve for closing a reservoir in response to controlling of the control unit at an initial time of the urinary analysis to collect a predetermined amount of user's urine and opening the reservoir in response to controlling of the control unit at an end of the urinary analysis to discharge the user's urine;

a cleaning water supply valve for injecting cleaning water in a water tank into the inside of the reservoir where urine has been discharged in response to controlling of the control unit to wash urinary remnants out;

an analyzer for absorbing a small amount of the user's urine collected in the reservoir and analyzing them by using an analysis program to transmit its analysis results to the control unit; and

a communication interface unit for converting urinary composition analyzed by the analyzer into urinary composition data and transmitting them to the liquid crystal display means.

24. The bidirectional monitoring system capable of a medical diagnosis and a commercial broadcast according to claim 9, wherein

the monitoring device further comprises a channel selection button to allow the user to select a certain channel, and

the control unit controls the tuner or the receive device in response to the channel selection signals selected by the channel selection button.